The Logger's Bark

RADIO CLUB of TACOMA

AUGUST 2020 VOLUME 17, ISSUE 8 ©Radio Club of Tacoma W7DK

100 Years of ARRL Affiliation for The Radio Club of Tacoma

At the August 2020 Zoom General Meeting, our club was honored to be presented a plaque commemorating our one hundred years of affiliation with the American Radio Relay League. This plaque was presented during the meeting program segment by ARRL Division Director, Mike Ritz W7VO. Division Vice Director Mark Tharp, KB7HDX was also in attendance for this event.

Some may not be aware that we have the actual 1920 ARRL Affiliation Certificate hanging on the wall of the clubhouse training room. And if you look closely in the lower right, you'll see it was signed by the original Old Man himself, Hiram Percy Maxim, 1AW which not long after became W1AW, the current station call sign for the ARRL.

Mr. Ritz used the time to show us a rather interesting power point presentation of the significant events of that year. Lots of noteworthy things took place then: the world's first Boy Scout Jamboree was held in England, and Charles Ponzi was arrested, his last name made forever infamous in the world of financial crime, as the root of what we call a Ponzi Scheme. 1920 was also the year amateur radio almost died just a few short years after being created! Then Secretary of the Navy, Josephus Daniels under President Woodrow Wilson lobbied hard to have the US Navy take over permanent control of all radio transmitters in the United States. Fortunately, his efforts failed. Had he succeeded, ham radio as we know it today would long ago have ceased to exist.

Other notable events of that year included a race of sorts – two airplanes made a transcontinental US Mail delivery in 11 days, marking a milestone that only stood for less than a week, when an automobile made the same transcontinental delivery in only 4 and a half days! And that's pretty good time even today!

The President's Corner

Dave W7UUU

Page1: Da Prez!

Page 3: From the Editor

Page: 5—12 Club Reports

Page 14: RCT PMT list

Page 16: Mini-Horse Yagi antenna

Page 18: Salmon Run!

Page 19: Elections…

Page 20: RCT history, last part!

Tip 'o the Hat to Doug AD7AV for his patience with ur editor, who forgot to include the last part of the history in the July issue!

Regarding amateur radio and noise on the bands? You bet they had it back then as well! ARRL NW Manager (what we now call Division Director) in Vancouver, WA reported that static crashes were so extreme as to make radio difficult but he reported occasionally hearing other amateur stations from such exotic locations as Los Angeles and San Diego! In fact, the whole founding of the ARRL was to overcome the lim-

ited distance capability of early amateur radio gear – developing a vast array of stations coast to coast to relay messages station by station, carrying messages across the country. This was the founding structure of what would become in 1949 the ARRL National Traffic System

It was great presentation by Mike and in fact, I am glad the meeting was on Zoom because we have a full video recording of the entire presentation that you can watch from home anytime on YouTube.

To view the presentation on YouTube just click this link: https://youtu.be/eGkhkU9n_ic

The key time stamps in the video are as follows:

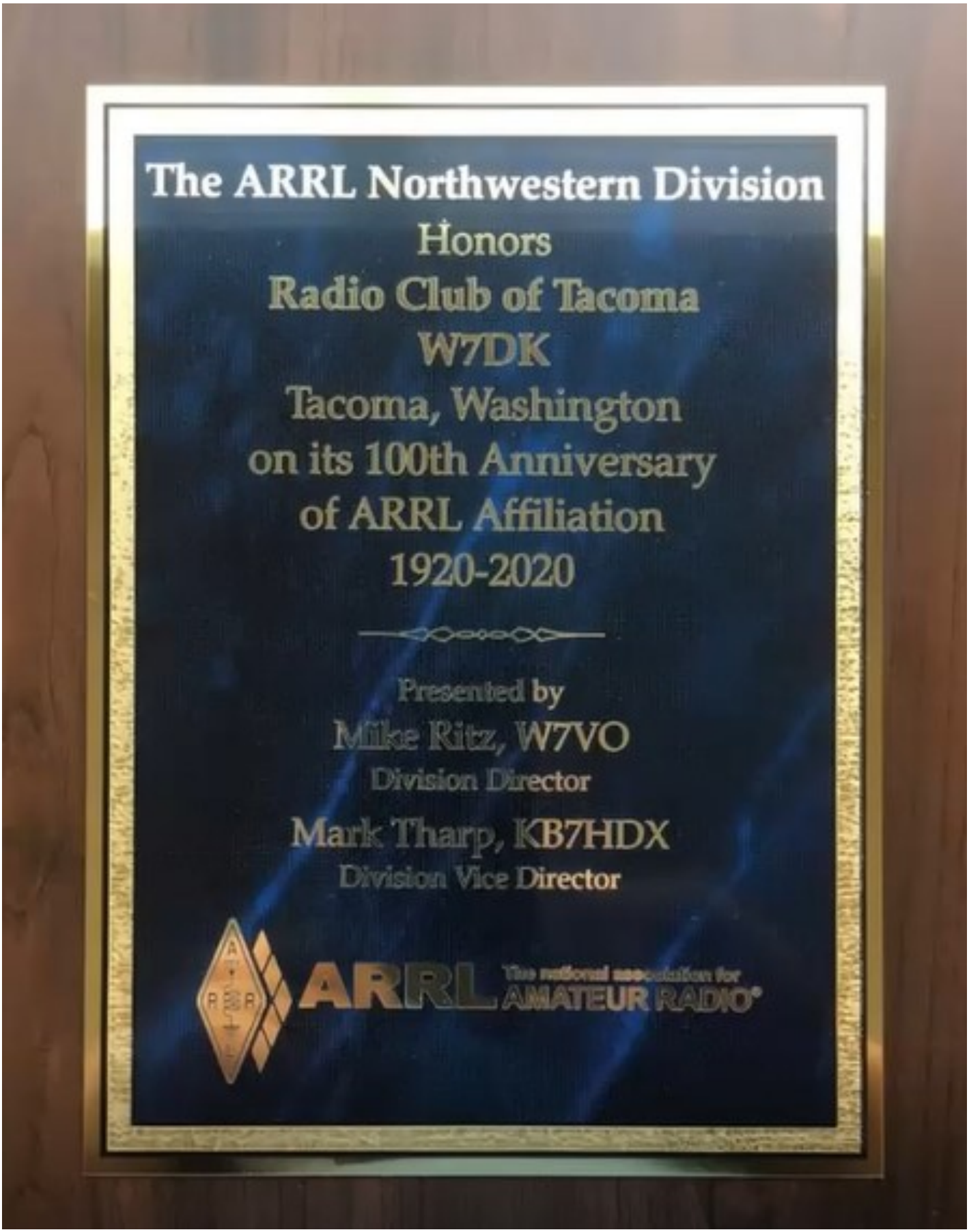
22:26 Meeting begins
56:04 Program segment begins
58:22 Original 1920 ARRL Affiliation Certificate is shown (this hangs in the clubhouse)
59:18 Power Point begins with all the historical trivia outlined above
1:12:40 Letter from the President of the ARRL is shown and read
1:14:32 Official plaque is presented

Note that this is what YouTube calls an "unlisted video" meaning you can only view it if you have the link. So I would ask that you not post the video link in any public sites such as Social Media. And should anyone need the 489 megabyte full video file, we have that stored on the club's NAS computer system and we can make it available should anyone need the raw file.

Thanks to all who were able to attend, and especially to Mike Ritz and Mark Tharp for being our special guests, and of course to the ARRL for all that they do for the Amateur Radio hobby and service.

Best regard to all – stay safe

Dave
W7UUU


The ARRL Northwestern Division
Honors
Radio Club of Tacoma
W7DK
Tacoma, Washington
on its 100th Anniversary
of ARRL Affiliation
1920-2020
Presented by
Mike Ritz, W7VO
Division Director
Mark Tharp, KB7HDX
Division Vice Director
ARRL
AMATEUR RADIO

From the Editor

Hello again club members. Another month for the record books! We've been having one of the western Washington summers with out summer weather! But, there was that one weekend this month where the temperature actually got into the triple digit range! As I type this, on August 23rd 2020 the outside temperatures are in the 70 degree range… Well, soon enough we'll be wishing that the summer would continue. During our morning walk, the wife and I saw the beginnings of trees changing colors in readiness for fall. Maybe we will have a nice September

Before going into the real fall weather.

Speaking of fall, some events on the club horizon: First, our yearly fund raiser centered on the Washington state QSO party, also known as "The Salmon Run". This is an event sponsored by the Western Washington DX Club. The idea is to work as many counties in Washington as you can during the two week-end sessions. W7DK usually does pretty well in this contest. What we have done is to solicit donations from the club members based on how many counties we work. The amounts are totally up to the members, but most of us donate a dollar for each county worked. There are thirty-nine Washington counties, so you can do the math! This yearly event has helped W7DK have enough funds to operate through the year, with enough left over for various club projects. The clubhouse for example, is kept in prime condition by members who can use the funds generated for club upkeep and improvements like the new shed, upgrades to the library, annual gatherings and picnics, you name it! Most everything we do as a club has a cost attached…

See Randy WB4SPB's article on page 18 for details, then take a bit of time and consider a pledge donation for your club. Trust me, as one who has no vested interest, this really helps the club, and it's also fun to do! If you want to be a contest operator at W7DK for salmon run, contact Al N7OMS or Adam W2NCC for the schedule.

Second topic: Elections! Just like the "big boys", RCT has an election of club officers coming up in November. Elsewhere in this edition of "The Loggers Bark" (page 19) you will find some details on this. Please consider the fact that we do need people to do things behind the scenes and vote for the people that you think will do a good job.

So, don't forget to mark your ballots when they arrive…

73 For now, Gary WG7X

Editor: Loggers Bark

Radio Club of Tacoma

Board of Directors Meeting

August 5, 2020

Zoom Meeting

Meeting called to order at 19:00 by Dave W7UUU

Officers and Directors Present

President Dave Ellison W7UUU

Secretary Mike Drorbaugh W7MKE

Treasurer Steve Dightman AF7YD

Board Bruce Hanson WE7P

Board Paul Matney W7PFU

Board Adam Barbera W2NCC

Board Red Cranefield WB7EC

Board Phil Pia K7PIA

Quorum

A quorum was present and 14 people were in attendance during all or part of the meeting. The Attendance List is attached.

Silent Key or Illness

SK – Raymond E. Pedersen W7KEN: January 14, 1922- May 12, 2020 Passed away at Good Samaritan Hospital in Puyallup after a fall and broken hip.

SK – Joseph Baldassari W7RQ: ("Jay" as his Italian family called him) passed away unexpectedly on Palm Sunday, April 5, 2020, at his home in Puyallup, Washington.

Approval of Minutes of July 1, 2020 RCT BOD meeting

A motion was made by Adam W2NCC and Seconded by Phi K7PIA to approve the minutes as distributed for the July 1, 2020 RCT BOD meeting. Motion carried.

Secretary's Report (Mike W7MKE)

Mike-W7MKE received the keys for Crawford Mountain access and has made 3 copies. One in lock box, one in file cabinet in Secretary folder and will give two copies to Al N7OMS.

Clubhouse was visited by 2020 Census taker who left a notice. Mike called Census and reported no one lived at 1249 S. Washington St. Was told we'd have to deny anyone in residence 3 times!

Treasurer's Report (Steve AF7YD)

On Jan. 1, 2020 the total balance was XXXX. Balance on July 31, 2020 was XXXX. Therefore expenses exceed income by $3063.03 this year to date.

Steve also shared graph of month to month balance since he's been Treasurer. The general trend is up from 2017 with mid-year dips. Steve's comment was that we have two scarce resources: Time and Money. So we need to consider how we also manage our time, deferred maintenance, etc.

Steve was asked if he had figures for annual expenditures. He state that over the last 3.5 years we're spending about $XXk per year.

Randy WB4SPB commented that back in 2012, 2013 we had assets of $XXK more- or- less so we've added about $20 – 25K since then. For detailed info, please contact club management directly. Decisions were made to not public ally display club account levels due to the nature of the "Logger's Bark."

Committee / Reports

Membership (George K7GRS)

RCT has added Paul Groschel KG7TSR, Tomas Word as an Associate member, Mark Rausch KJ7TSM, and Wade Palmer N5WAP since last report. Membership stands at 281 members.

Training

No report

Info Tech and Website (Randy WB4SPB)

Most systems nominal, classroom system still down. Backups completed on NAS, website operation OK.

HF Operations (Phil K7PIA)

Phil checked HF operations last Tuesday and all stations seemed OK. Phil reported on several upcoming contests and reminded people to apply for Logger's Certificate if they qualify.

Repeater Ops (Al N7OMS)

Al sent request to Property Management for a 2M/440 antenna if there is one he wants to upgrade radio in kitchen. Repeaters and APRS seem to be working. He wants to begin checking repeaters.

Facilities Mgmnt. (Adam W2NCC)

Not much happening, some projects on hold due to financial / Covid-19 situation. Some siding work needs to be done and handicap ramp needs repair. Adam is looking at putting a box on tower w/patch panel to be able to use 20M beam from car or portable rig and hopes to complete that project this month.

Mouse issue seems to be resolved by various traps, baits. Squirrels have made some holes at roofline/wall interface so needs a mesh to cover hole.

Property Mgmnt. (Red WB7EC)

Red sent list to BOD of equipment that club would like to sale. There are 18 items on the list that is attached to this report. **Motion made** by WE7P and seconded by K7PIA to approve sales of those items on list pending request by any of the committees. Motion passed. WB7EC reminded people that if a club member wants something to email or

contact him.

Museum (Rich KR7W)

No report

Weds Workshop (Randy WB4SPB)

Randy has an idea lined up and is trying to contact presenter so TBD.

General Meeting (Verna KF7SCB)

Program for general meeting will be Mike RitzW7VO's presentation on 100 yr. RCT affiliation w/ARRL.

Unfinished Business

Update on 14th Street Encroachment by Doug Schafer - AB7DG. Doug's heard nothing since mid-May when he sent email to city. Doug has made a couple of additional attempts to contact city with still no response. He suggests he write a letter to the city that we don't want to sign the letter the city drafted but RCT would allow large city trucks to encroach on RCT property to make the turn. Doug's reasoning was based on some legal terms/doctrines that might allow adverse taking if there was 10 years of hostile use of our property.

A motion was made by Adam W2NCC to have Doug draft a letter to City of Tacoma granting them permission for traffic to encroach on RCT property to extent necessary to turn onto alley. Motion Seconded by Bruce WE7P. Motion passed. Doug agreed to draft a letter and have BOD review it prior to sending it to the city. Dave W7UUU reported that RCT received rebate of Ft. Steilacoom Park rental for August picnic.

New Business

Future meeting sites**:** Phil Shideler, KC7PS explored using his church as a meeting site but is still gathering information so we will wait for report later.

Al Ferguson N7OMS as contest manager wanted to talk about what to do with Salmon run. Are we going to do it? He needs to get a team together for Salmon Run at the club. Adam supports doing it from Club because we can do it safely and it's a tradition. Verna's KF7SCB only issue is scheduling re: Covid as we need to schedule so no more than 5 people at a time are gathering. Dave W7UUU stated we definitely need to go forward with the fund raising. George K7GRS stated he hadn't really done much planning yet but tentatively thinks that fund raising can happen. He's exploring some alternate means of communication. Salmon Run is September 19-20.

Activity Reports and Discussion Topics

What should the order of agenda be for program at General Meeting August 8th with Mike Ritz W7VO's presentation? Should it be early or wait to the end as usual for program? It was decided to have his program at the normal time in the agenda and have Verna KF7SCB introduce him.

Announcements

The Western Washington Section is looking for a Section Traffic Manager (STM).

The Section Traffic Manager (STM) should have a solid understanding of the National Traffic System's (NTS) goals and objectives as well as methods used to handle, store and forward message traffic. They need to be team players and know how to motivate and respond to the needs of team members, other ARRL leaders and people from the Amateur Radio Service Community. They must be a good communicator with good interpersonal skills.

Duties of the STM can be found at:

http://www.arrl.org/section-traffic-manager

Interested amateur radio operators or those who have questions are invited to send an email to the Section Manager, Monte Simpson, W7FF at w7ff@arrl.org.

August 8-9th, 2020 a first ever virtual ham fest. Sign up at: **qsotodayhamexpo.com** over 70 speakers/programs

Adjournment at 20:05

Mike Drorbaugh – W7MKE RCT Secretary

Radio Club of Tacoma

General Meeting Minutes August 8

2020 ZOOM MEETING

Officers and Directors Present

President Dave Ellison W7UUU

Secretary Mike Drorbaugh W7MKE

Treasurer Steve Dightman AF7YD

Board Adam Barbera W2NCC

Board Phil Pia K7PIA

Board Paul Matney K7PFU

Board Red Cranefield WB7EC

Board Bruce Hansen WE7P

Meeting called to order at 1:30 local by Dave-W7UUU

Welcome and Introductions of visitors

Visitor introductions were made. The attendance list is attached. Visitors were: Mike Ritz-W7VO ARRL NW Division Director and Mark Tharp-KB7HDX NW Division Vice-Director.

Health and Welfare/Silent Key & Illness

SK – Raymond E. Pedersen W7KEN: January 14, 1922- May 12, 2020 Passed away at Good Samaritan Hospital in Puyallup after a fall and broken hip.

SK – Joseph Baldassari W7RQ: ("Jay" as his Italian family called him) passed away unexpectedly on Palm Sunday, April 5, 2020, at his home in Puyallup, Washington.

Worth Gurley- W7WG attended our meeting from his hospital bed where he's recovering from a stroke at St. Claire, his daughter Heather assisting.

Red Cranefield- WB7EC had some injections for pain in his back and legs and is feeling better now and believes he will be able to be more active in Property Management now that he can get around better.

Secretary's Report (Mike-W7MKE)

Usual stuff, some magazines, bills and membership applications came in. I received the keys to Crawford Mountain and made copies. One copy in lock box, one copy in my folder in the locked file upstairs and two copies will go to Al-N7OMS as repeater chair.

Received a notification from 2020 census who called on our clubhouse so I called the census line and reported the no one lived at that address and found out we'd have to deny any one lives there 3 times!

Treasurer's Report (Steve-AF7YD)

Bills are paid. This year expenses have exceeded income by about $3,000. Income is down but expenses are also down because of lack of activities like FD. Steve has offered a more detailed report to BOD.

Committee / Activity Reports

Membership (George - K7GRS)

The club is still managing to grow slightly in spite of SKs. We've added Paul Groschel – KG7TSR, Mark Rausch – KJ7TSM, Wade Palmer-- N5WAP and Steve Vidas – KJ7PMQ as Full or Senior Members and Tomas Word as an Associate Member. Membership stands at 282.

Training (Stephen - AD7AB)

Clubhouse is closed, no report.

VE Report (John - AC7WW)

On a Sunday, July 14th your VE group had a drive-In testing session which was attended by 7 candidates. Ten exams were graded with three new Technicians joining the Amateur Service. One candidate passed element two and three to become a General, two passed element three and advanced to General. One candidate did not earn an initial license. Thanks to the following for their time and effort:

Leonard KA7NWF Jan, K7HTU John AD7AW Rich KK7VH Mike W7XH

HF Operations (Phil - K7PIA)

Current station status: all stations operating normally. HF committee is still on hiatus. Any questions about HF, contact Al-N7OMS or Phil. Upcoming contests include: ARRL Rookie Roundup RTTY and Worldwide Digital DX (for FT4, FT8) also for those wishing to get a Loggers Certificate for working 10 RCT members, contact Dave-W7UUU with your log.

Repeater Operations (Al- N7OMS)

Al sent a request to Property Management for a 2M/440 dual band antenna to use to upgrade the kitchen to VHF/UHF. He plans to begin checking repeater stations to assess conditions there.

IT Report (Randy - WB4SPB)

Randy reported that all systems except classroom computer are being maintained and appear to be operating nominally.

As always he appreciates reports of inaccurate or out-of-date information that website visitors or content stakeholders may notice.

Museum (Rich - KR7W)

Clubhouse is closed, no report.

Property Management (Red - WB7EC)

PM has had about $200 in sales recently. A number of nice donations have come in lately including a new KX3-f brand new in box, and an older Kenwood THF6A tri-band also new in box. They plan have list of available items for sale on website or in BARK, possibly a Zoom sales. If you are interested, please contact Red-WB7EC.

Facilities Management (Adam - W2NCC)

Not a lot of club activity and lower income this year so some repairs on hold like siding and handicap ramp. Adam still wants to mount and access box on base of the tower to allow use of tower antenna from outside the clubhouse.

4th Wed. Night Activity (Randy - WB4SPB

August 26th program is “How Cable Works from Headend to Home” by Patrick K7DKP, who works in the industry.

Bark Editor (Gary - WG7X)

Last chapter of RCT history will appear in September BARK. The book being produced by George-K7GRS of the compilation of the BARK articles is coming.

New Business

Appointment of Nominating committee for BOD/Officers – Dave - W7UUU

(A) NOMINATING COMMITTEE. On or before the regular August meeting of each year, the President shall appoint a Nominating Committee consisting of a chairperson and at least two other full members who are not current officers. Members of the Nominating Committee shall have been full members of the Club for at least one year.

Nominees for Board positions shall have been Club members in good standing for at least one year at the time they would take office. Nominees for Club officers shall have been Club members in good standing for at least two years at the time they would take office.

President Dave-W7UUU appointed Randy-WB4SPB, PJ Hicks-N7PH and Verna-KF7SCB as the election committee. Up for election this year are: President, Treasurer and two board positions.

Unfinished Business

Dave- W7UUU reported on 14th Street Encroachment

After discussion by RCT BOD we brought in RCT member and attorney Doug Schafer- AB7DG who contacted City of Tacoma in March but has not heard anything back. Therefore Doug advised BOD that he send a letter to the City giving them permission to allow garbage truck traffic to drive on our property as needed to make the turn from 14th Street to the alley. Such letter will preclude the city from establishing an adverse taking of RCT property for their use as 14th street.

Program (Verna – KF7SCB)

Verna introduced Mike Ritz – W7VO ARRL Division Director who presented the Radio Club of Tacoma with a comerative plaque and letter of appreciation from ARRL President for 100 years of affiliation with ARRL.

Mike stated RCT is one of only 2-3 clubs with such a long affiliation with ARRL. He had a PowerPoint presentation showing some of the advancements in radio and events happening in August 1920, the time when RCT affiliation with ARRL began (August 27, 1920).

World events in August 1920:

- First world Boy Scout Jamboree held in England
- Amateur radio in infancy and because of events of WW1 almost lost all RF privileges to Navy
- Charles Ponzi was arrested
- Two all metal air planes made transcontinental mail delivery but cars were faster!
- Lafayette transmitter in France made first wireless transmission
- First commercial radio station 8MK later WBL, now WWJ in Detroit came into being

In Amateur Radio August 1920

- QST magazine cover showed two guys camping who had a radio setup
- Editorial opinion: Takes too long to tune receivers which have 4 to 8 adjustments required
- NW manger (former title of ARRL Division Director) from Vancouver, WA reported dealing with atmospheric static

QRN, a serious problem but occasionally could hear stations from as far away as Los Angeles or San Diego.

- QST Classified ads: 3" Spark Coil that has transmitted up to 75 miles, $12. An Audiotron (vacuum tube) $4.50
- Also in September 1920 QST was an announcement and picture for RCT showing original 18 members. QST at that time reports RCT started in October 1915. Officers and prominent members were listed.
- Things have changed a bit in 100 Years but some things don't change: Picture of Kenwood TS-990 with lots of knobs!

Mike Ritz showed picture of a very handsome plaque from ARRL to RCT and indicated he was extremely proud of our achievement. He shared a letter from ARRL BOD and the ARRL President congratulating RCT for its accomplishment in maintaining a club and our affiliation for so long.

Mark Tharp- KB7HDX joined Mike Ritz-W7VO in expressing his pride and in praising RCT for our achievement.

Show and Tell/Tuning and Traffic

Dave-W7UUU just received a QSL card from a June 7, 2014 contact with RI1ANC, Antarctica worked on CW.

Announcements:

The Western Washington Section is looking for a Section Traffic Manager (STM).

The Section Traffic Manager (STM) should have a solid understanding of the National Traffic System's (NTS) goals and objectives as well as methods used to handle, store and forward message traffic. They need to be team players and know how to motivate and respond to the needs of team members, other ARRL leaders and people from the Amateur Radio Service Community. They must be a good communicator with good interpersonal skills.

Duties of the STM can be found at:

http://www.arrl.org/section-traffic-manager

Interested amateur radio operators or those who have questions are invited to send an email to the Section Manager, Monte Simpson, W7FF at w7ff@arrl.org.

August 8-9th, 2020 a first ever virtual ham fest. Sign up at: **qsotodayhamexpo.com** over 70 speakers/programs

Mike W7VO is flying to Denver next weekend for ARRL board meeting to interview candidates for ARRL CEO, and to deal with various tabled motions, etc.

Adjournment at: 14:49 local

Respectfully submitted,

Mike Drorbaugh- W7MKE

RCT Secretary

RCT SALE

VIRUS SALE 2020

Items in red are new untested equipment

ITEMS 18-219 – left from M & K

Contact RED WB7EC at E-MAIL(bruce-ec@hotmail.com) to reserve/make offer on

A item after VIRUS clears up

		PRICE
18. Yaesu HF PWR AMP FT-2100B		$300.00
25. Kenwood XTAL Filter YG-455C-1		$50.00
41. Suitcase with Tektronix scope camera		$50.00
84. Comet Triplexer CFX-514		$40.00
114. Astron Power Supply RS-12A		$25.00
119. Elecraft HF XCVR K1 TWO bands 15/40 /AT		$300.00
125. Kenwood TR-9000 2MTR XCVR		$100.00
131. ICOM HF XCVR IC- 706	SN: 8973	UNDER REPAIR
138. Kenwood HF RX R-599D	SN: 530265	UNDER REPAIR
147. DX Engineering Remote Coax Control Switch CC-8		$ 400.00
148. DX Engineering Coax Switch RR8-HP		P/O #147
149. Kenwood HF XCVR TS-930S SN: 2120327		$ 600.00
150. Kenwood Speaker SP 930		P/O #149
151. Kenwood MIC MC-60		P/O #149
152. Kenwood Power Supply PS-30		P/O #149
156. MFJ Active Antenna MFJ-1020C		$60.00
157. MFJ Dual Speech Enhancer MFJ-618		$150.00
166. Mirage VHF 6 MTR AMP a-1015G		$250.00
167. Vectronics Antenna Tuner mod HFT 1500		$300.00
170. Alinco VHF/UHF XCVR DR-60ST		$150.00
174. CDE Rotor Control H-IV/CD-45-II		$50.00
175. CDE H-IV/CD-45-II Rotor Control		$50.00
180. Rig Blaster plug & play Digital mode interface		$30.00
181. Emerson speaker		$5.00

182. Archer rotor control PN: 15-1220	$5.00
183. Wilson WR50U rotor control	$7.00
184. ICOM IC-H19s2 VHF hand held/ BM-70 charger	$7.00
185. two Amateur TV stations in portable boxes	$500.00 for both/300.00 each
186A. Sony DCR-HC 42 camera case	$50.00
186B. Sony DCR-HC 42 camera case	$50.00 186A/B $ 75.00
189. Motorola MFR M12 L box	$5.00
190. Motorola MSRS 12 Regulator box	$5.00
191. F2A85-V motherboard	$3.00
192A HRO Receiver Dial Drives	$20.00
192B HRO Receiver Dial Drives	$20.00
192C HRO Receiver Dial Drives	$20.00
193. Heathkit Sine Wave Audio Generator IG-5218	$30.00
194. Zenith old Radio not complete	$20.00
195. Zenith old radio complete	$30.00
198. Philco old radio	$10.00
200. Home made test set	$10.00
201. Patrolman Pro 2 receiver	$5.00
202. Aldenmarine Fax IV	$30.00
205. COMP USA 250 watt ATX power supply	$10.00
206. COMP USA 250 watt ATX power supply	$10.00
212. Lafayette Speaker model 99-2571	$30.00
215. Blue box with 4 headsets	$20.00
219. Russia Tubes 6N21C—10 tubes in box	$30.00
221. Kenwood HF XCVR TS 680S, no mic	$275.00
222. Kenwood Power supply PS-50	$ P/O 221
223. Kenwood 2/220 mobile XCVR TM-621A,no mic/pwr cable	$50.00
224. Alinco 2mtr FM mobile XCVR DR110,no mi/pwr cab	$35.00
225. Alinco 2/440 mobile XCVR DR-590T,no mic/pwr cable	$50.00
226. B & W Antenna Tuner VS300A	$90.00
227. Elecraft HF XCVR KX3 # 10797,NEW in BOX/extra parts	$900.00
228. Kenwood 3 Band VHF XCVR TH-F6A/extra's	$200.00
229. MFJ Artificial GND MFJ-931	$90.00
230 MFJ Noise Cancelling Signal Enhancer MFJ-1026	$ 150.00

231. MFJ Dual Channel Speech Enhancer MFJ-618	$150.00
232. Murch Transmatch/Antenna Tuner UT-2000A 3.5-30MHZ	$100.00
233. MFJ Antenna Tuner/Preamp MFJ-959B	$30.00
234. MFJ RF Preselector II MFJ-1040	$40.00
235. MFJ Active Antenna MFJ-1020A	$40.00
236. Heathkit Antenna Noise Bridge HD-1422A	$20.00
237. Heathkit Speaker SB-600	$100.00
238. MFJ Morse Key Board Keyer MFJ-452/HP Keyboard	$100.00
239. Drake HF Receiver R-4C (early model)	$PENDING
240. Drake HF Transmitter T-4X	$PENDING
241. Drake Speaker/PS MS-4	$PENDING
242. ICOM VHF XCVR IC-211/no mic	$200.00
243. Alinco VHF Handheld XCVR DJ-196T	$45.00
244. Vertex VHF Handheld XCVR VX-150	$45.00
245.	

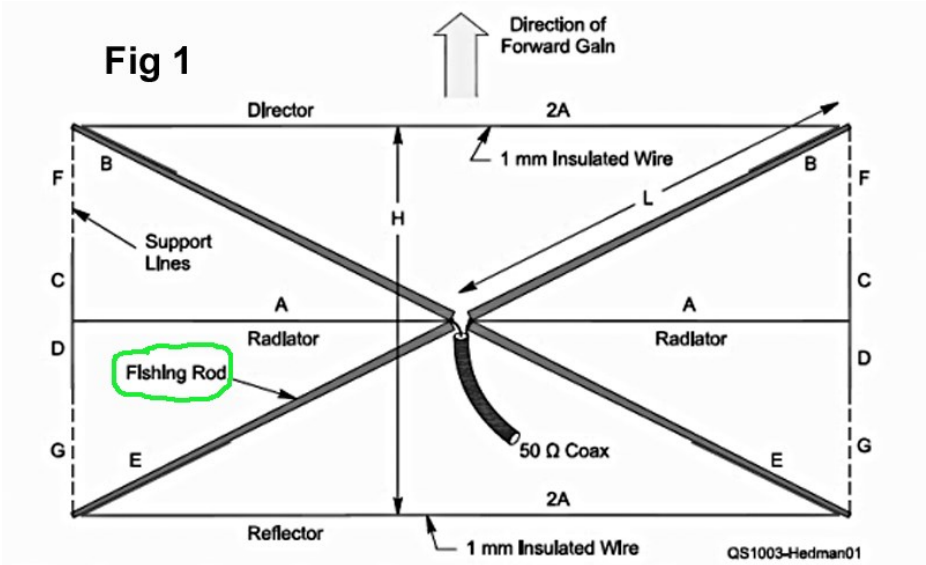
AS OF 15 AUGUST 2020

The Mini-Horse Yagi Antenna - One of the Wire Antennas I've Known

By Cub Reporter

More than 10 years ago I discovered an antenna article by a Swedish ham that creates a single band Yagi style antenna that uses wire as the elements and 16 foot long collapsible fishing poles (aka crappy poles) to support it in the sky, called the ***Mini-Horse***. I built the 20 Meter version. It was used in two different Field Day events.

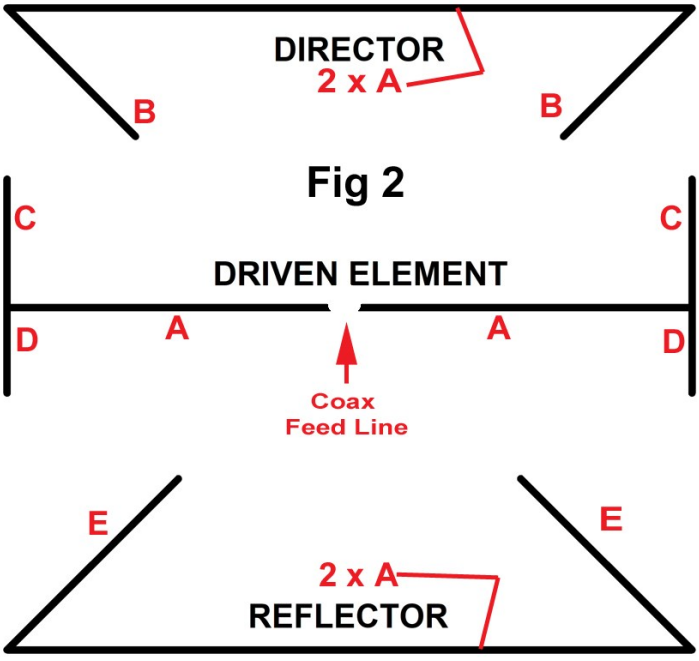
Fig 1



MHz	A	B	C	D	E	F	G	H	L
144	1' 2.2"	0' 4.7"	0' 3.5"	0' 1.8"	0' 7.1"	0' 4.7"	0' 6.5"	1' 4.5"	1' 4.3"
28	5' 11.6"	1' 10.8"	1' 6.9"	0' 9.4"	2' 11.8"	1' 10.8"	2' 8.3"	6' 11.4"	6' 11.0"
21	7' 11.6"	2' 6.3"	2' 1.2"	1' 0.6"	3' 11.6"	2' 6.3"	3' 6.9"	9' 3.0"	9' 2.6"
14	11' 11.3"	3' 9.7"	3' 1.8"	1' 6.9"	5' 11.2"	3' 9.7"	5' 4.6"	13' 10.9"	13' 9.7"
7.1	23' 10.5"	7' 7.3"	6' 3.6"	3' 1.8"	11' 10.5"	7' 7.3"	10' 9.1"	27' 9.8"	27' 7.4"

This antennas center support structure was recently found on a shelf in my garage. "Wow! Looky there, I wonder how this goes together". Advanced Google skills did not find the original article by the Swedish ham. Turbo Googling revealed a small mention of the Mini-Horse at this website: https://www.n4lcd.com/wireantennas/ Scroll down to **#84**, where the wire lengths are revealed for each band– as here in **Fig 1**, but not the geometry of the fish poles.

Fig 2 shows a simplified drawing of the wire lengths and their position. The Director and Reflector elements are extended to the correct length by folding the wire length not in a straight line. The Driven elements for 20 Meters each are too short by approx 5 ft– but this is compensated for by creating a 'capacity hat' by adding sections B and D to the end of A to make the element T shaped. Note: Capacity hats are used to electrically lengthen vertical antennas.



A ham club friend whose other hobby is welding built me the antennas center structure that supports the 4 fishing poles as spokes and provides an axel like sleeve that sets down onto the vertical pipe mast. Wooden dowels were used as couplers between the metal pipe spokes and the somewhat fragile fiberglass crappy fish poles. See **Fig 4**.

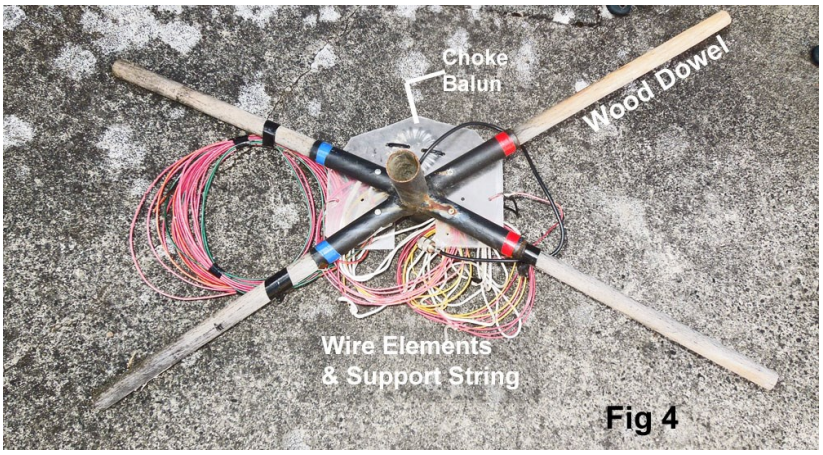


Fig 4

Fig 4 shows the center support of the Mini-Horse. Wood dowels are slid into and screwed to the metal pipe spokes. The fish poles slide over the dowels and are electrical taped in place. The vertical oriented axel pipe slides down onto the mast pipe. The azimuth orientation of the Yagi is managed by the 'Armstrong' method– accomplished by tying a string to the end of one of the fish poles, walking it around to point in the desired direction, then staking the string into the ground.

How does it work? Empirical testing proves it works as a Yagi should. At one Field Day, the radio was tuned to a S-9 loud Colorado CW station repeatedly calling CQ. Armstronging the antenna around in a circle revealed the strongest signal pointing east. Rotate to south and the signal was barely heard. Rotate to the west– the signal came up in level but about 3 S-Units less than when pointed east. It works just like the General Class license manual says– and Bob's your Uncle.

Thanks for reading this far.

30 73 SK CL KR7W Cub Reporter

FD 2011 Photos: The 20M CW and 40M SSB+CW stations were housed in the shelter. The Mini-Horse Yagi was used by 20M CW. 40M uses a N-S and a E-W inverted Vee dipole where the apexes are attached to a halyard just below the center of the Mini-Horse.

Thanks to Randy WB4SPB for finding these photos in the archives.

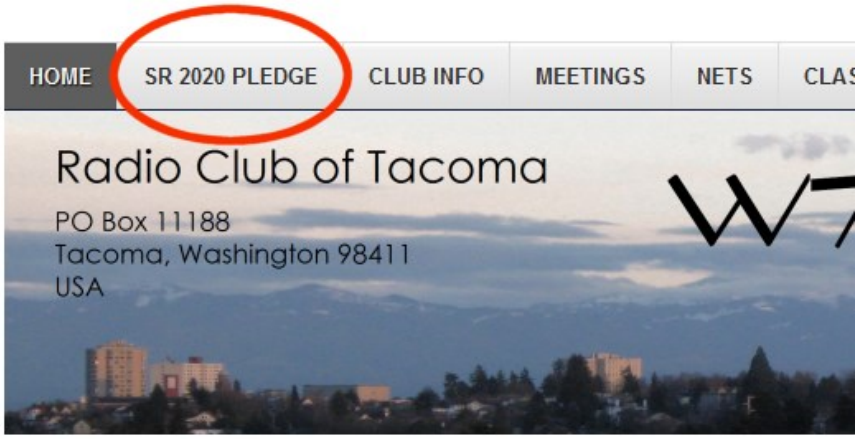
The salmon will be running!

W7DK will participate in this year's **Salmon Run contest**, September 19 and 20, although under more controlled conditions than we are used to. Because of the COVID-19 pandemic, radio desks on two different floors of the clubhouse will be used, and operators will be carefully scheduled to preserve social distance.

In addition, our **Annual Salmon Run Fundraiser** will go forward. With surplus equipment sales mostly curtailed because of the pandemic, this fundraiser will be important in trying to keep our club's finances from going too far into the red this year.

But here's a small twist: we will take a baby step into The Present by asking for your pledges using email and our website rather than a postal mail campaign.

Starting soon, a menu item will appear at the top of pages on w7dk.org. It will look something like this:



To make a pledge, please click on **SR 2020 PLEDGE** or follow a direct link that we will publish in club-wide emails. You'll see instructions for downloading a pledge form, which you can:

print, fill out and return via postal mail, or
fill out using a PDF reader and email back to the club.

You'll be able to make all of the different kinds of pledges we have used in the past, such as an amount per Washington county contacted, or an amount for a "clean sweep" of Washington counties, a challenge of your own invention, or simply a one-time flat donation.

For those that pledge an amount to be calculated after the contest is over, a bill will later be sent to your member address of record.

If you'd like to participate in Salmon Run contest operation, please contact Alan N7OMS (n7oms@w7dk.org).
For questions about pledging, contact webhost@w7dk.org.

Election time is approaching

At the August regular meeting, club president Dave W7UUU appointed a Nominating Committee, as directed by the club bylaws. At the September regular meeting, the committee will present a slate of at least one candidate for each of the terms expiring this year: President, Treasurer, and two Director positions.

Additional candidates may be nominated at the September 12 and October 10 regular meetings. Nominees for President and Treasurer must have been a member in good standing during a two year period ending December 31, 2020. Nominees for a Director position must have been a member in good standing during a one year period ending December 31, 2020. A candidate may self-nominate or may be nominated by a third party member with the candidate's permission.

Ballots will be mailed after the October regular meeting, voted, and returned before the November 14 annual meeting where they will be counted. These procedures are detailed in the club bylaws and on the club's website, https://w7dk.org/index.php?option=com_content&view=category&id=56&Itemid=116
. Look for additional election reminders in email and in future issues of the *Bark*.

RADIO CLUB OF TACOMA HISTORY, PART FOUR BY DOUGLAS OAKMAN AD7AV

Both men and women continued to contribute actively to club life over the years.

Roy and Ethel Devish can perhaps be remembered as a typical club husband-and-wife team. Roy Devish W7AZI (1914-1992) played numerous leading roles in club life over sixty years. He held every office in the club and was a leader on many committees. When asked how things were going, Roy was known to say "I never had it so good." Roy and Ethel Devish W7WLX (1919-2005) were featured in a 1955 Tacoma News Tribune article about their fox hunting (hidden transmitter hunting) skills. Roy contributed an important record of club history in the 1984 *BARK*, where he described club activities such as: code classes, theory classes, potlucks, skating parties, bunny hunts, pinochle, banquets, Field Days, hamfests, etc. Ethel wrote detailed monthly reports for the Women's Auxiliary until its demise in 1991. When it disbanded, she reported that the group gave the club important kitchen equipment and special Auxiliary account money. Ethel continued to write a *BARK* column called "Chips from an Old Block."

It is also important to note that women have taken other top leadership roles in the club. As Appendix 2 shows, Jean Wheeler WA7OII served as club president in 1985-1986, Kathleen Nace N0EYK in 1992-1993, and Jill Palmer K7JIL in 2008-2010. In more recent years Shirley Murphy N7QHW kept the membership abreast of ARES activities.

THE NEARLY PRESENT TIME

The club has continued to keep tabs on its past. The "Homecoming 1971" event brought together a number of the club's early members. [November 1971 *BARK*] Pictures were taken of twelve 1916-1920 members, fourteen 1920s members, and seven 1930s members in attendance. At "Homecoming 1973," Winifred Dow returned to receive an Honorary Lifetime Membership. [November 1973 *BARK*] In later bound *BARKs* there can be found columns revisiting club activities 25 years earlier.

Important improvements were made to the clubhouse in the early 1970s. Under the leadership of Building Committee Chair Joe Winter WZ7M in 1972, the clubhouse was leveled and concrete foundation blocks were installed. Joe then served as president of the club in 1974. Along with Kathy Freinwald WA7WMD, Merl Chavis W7AZI, and a dedicated crew, the upstairs part of the club building was finished and painted. Further, as club president, Joe was instrumental in raising the club's 80-foot club tower (before the city would have prohibited such a thing!). Current president Dave Ellison W7UUU recalls how kind and encouraging Joe Winter was to him as a young ham operator.

After hosting the Washington State Hamfest in 1968, the club began to handle regular major W7DK hamfests. These continued until just a few years ago under the able guidance of members like Dennis Reanier W7UBA, Jerry Seligman W7BUN, and others. The club library/archives include many hamfest program books to attest this activity.

==========

Jerry Seligman W7BUN (1934- 2006) – One of the memorable recent club movers and shakers was Jerry Seligman. Here is what was recorded about him in the ARRL archives: "An ARRL Life Member, Seligman was well known in the Pacific Northwest as an amateur radio 'institution,' mentor and promoter. 'Jerry was keenly interested in the advancement of amateur radio and particularly with the recruitment of new hams and the pursuit of their advancement to higher classes of licenses,' said Chip Margelli, K7JA, a long-time friend [and, we might add, one of W7DK's own members many years ago]. 'Jerry always pushed his students to learn just a little bit more, arousing their curiosity in the areas of technical ability and operating skill, and he always, above all, led by setting a good example of proper operating procedure on the air.' Seligman served as a Radio Club of Tacoma (W7DK) officer, including as president and board member." [The ARRL Letter, Vol. 25, No. 34 August 25, 2006]

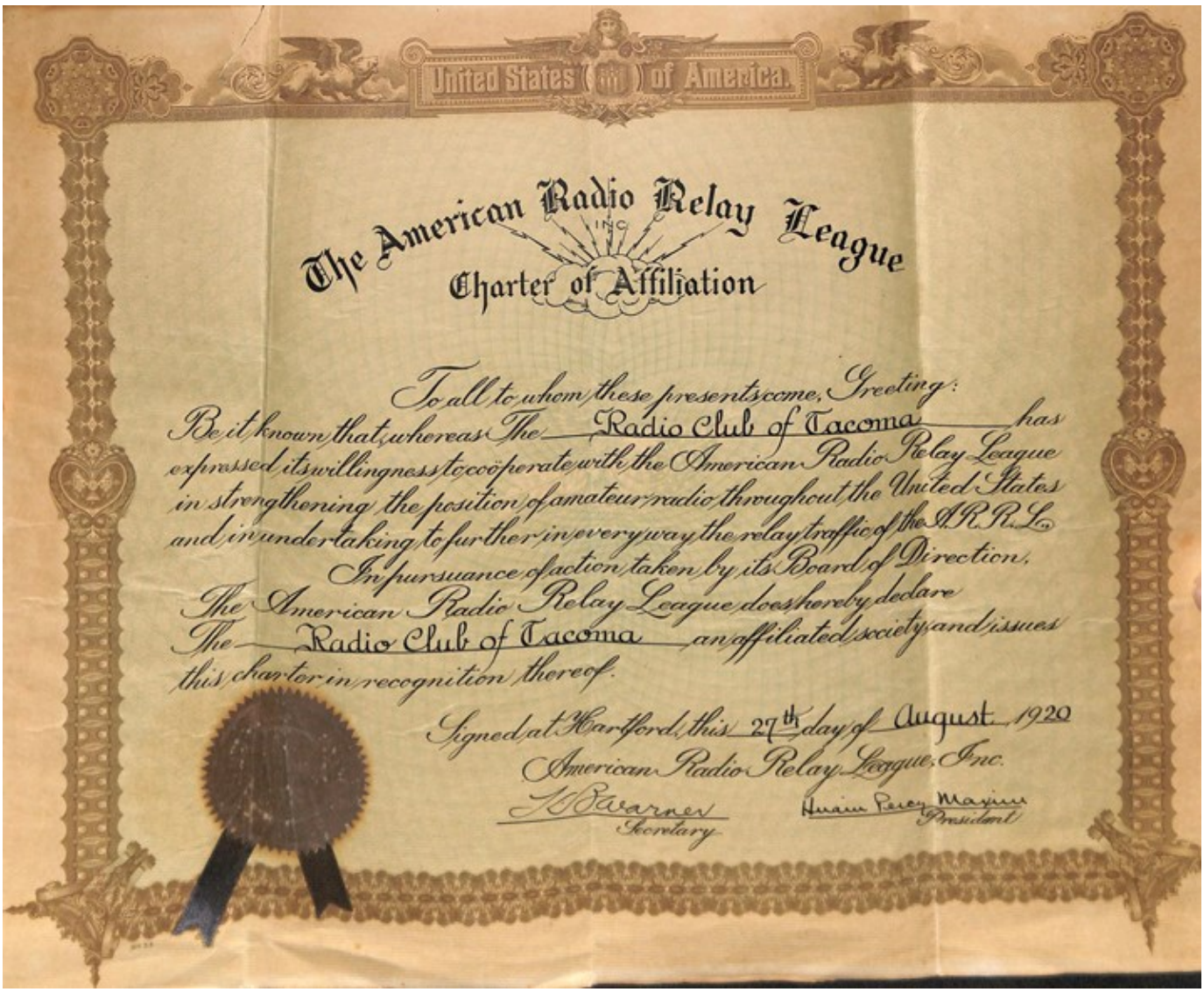
"Jerry was active in virtually every area of club operations over forty years, perhaps serving best as the club's conscience," said an announcement on the club's Web site. "For many years Jerry taught an amateur radio class at Bates Vocational Technical School, and many local amateurs owe their original licenses to Jerry's efforts." More recently he conducted the club's General and Extra class training sessions with great success. He also was an active net control station and contester. Of course, Jerry's Collins-powered N7PP regularly acquired Clean Sweeps during November Sweepstakes and could handily beat many a pileup during an international contest. Jerry's powerful transmissions got into every TV on the block and kept W7DK TVI experts very busy in those days! Jerry kept the club regularly informed on ARRL and FCC proceedings. The upper floor operating room in the clubhouse is dedicated to Jerry in appreciation for his equipment donations and contributions to the club.

==========

UNTIL JUST THE OTHER DAY

As the 1960s gave way to the 1970s, tube radios and radio kits gave way to all-solid-state rigs. The 1980s witnessed the advent of personal computers and with them packet radio and new digital modes. Members like Roger Nace K7AYC provided technical articles in the *BARK* on these developments. As the twentieth century moved toward a close, ham radio seemed as alive and vibrant as ever. Ham licensing tests were transferred to the province of Volunteer Examiners rather than the FCC. Soon after the dawn of the millennium, Morse Code would no longer become a rite of passage for Novices, and understanding the interface between computers and radios, or radios and the internet has ushered in a new age for amateur radio.

Over the last century close to three thousand registered members have enjoyed and participated in this vital association called The Radio Club of Tacoma. Members have spanned the spectrum between white collar and blue collar backgrounds, between professional and the working worlds, between technical engineering and human services callings. In 2016 the club celebrated its centennial, and in 2020 it is celebrating its affiliation over a century with the American Radio Relay League. May The Radio Club of Tacoma W7DK endure for another 100 years!



United States of America

The American Radio Relay League Inc.

Charter of Affiliation

To all to whom these presents come, Greeting:

Be it known, that, whereas The Radio Club of Tacoma has expressed its willingness to cooperate with the American Radio Relay League in strengthening the position of amateur radio throughout the United States and in undertaking to further in every way the relay traffic of the A.R.R.L.

In pursuance of action taken by its Board of Direction, The American Radio Relay League does hereby declare The Radio Club of Tacoma an affiliated society and issues this charter in recognition thereof.

Signed at Hartford, this 27th day of August 1920

American Radio Relay League, Inc.

K. B. Warner
Secretary

Hiram Percy Maxim
President

Select resources used for this club history

1917 QST article on Ms. Winifred Dow 7FG

2006 ARRL notice for Jerry Seligman W7BUN

Archives of The Radio Club of Tacoma — especially Al Stenso scrapbook, Doc Spike scrapbook, minutes, attendance registers

Interviews with Worth Gurley, Bob Heselberg, Rich and Arlene Manson, Steve Dightman, Nick Winter

Materials gathered for a Radio Club of Tacoma of Tacoma 90th Anniversary documentary video by Larry Watson KD4VOM, Peter Baker AD7EU, and Al Ferguson N7OMS

Margie Chavis Beechie, "The Radio Club of Tacoma: The Early Years." 50th Anniversary scrapbook, 1966

Newsletter *THE LOGGERS BARK* (1963-Present) — with special help from Roy Devish W7AZI, "Looking Back," *BARK* 21.10 October 1984

Obituaries from *The Tacoma News Tribune*

Select publications for the history of radio

Lee de Forest, *Father of Radio: The Autobiography of Lee de Forest*, Wilcox & Follett, 1950.

Clinton Desoto, *200 Meters & Down: The Story of Amateur Radio*. American Radio Relay League, 1985.

Lawrence Lessing, *Man of High Fidelity: Edwin Howard Armstrong*. Bantam, 1969.

Tom Lewis, Empire of the Air: The Men Who Made Radio. Harpercollins, 1991.

Alice Clink Schumacher, *Hiram Percy Maxim, Father of Amateur Radio.* Schumachers, 1970.

Appendix 1 – Doc Spike Awards

1974 Clifford Spike W7OS
1975 Gerald Seligman W7BUN
1976 Marvin Wheeler WB7ONX
1977 Jack Haworth WB7AJR
1978 Jack Haworth WB7AJR
1979 Steve Dightman K7SSC
1980 Scotty Huntley K7CYZ
1981 Dick Ryan W7RGD
1982 Dick Ryan W7RGD
1983 Roy Kilgore N7BXI
1984 Tom Sutton N7DRT
1985 Jean Wheeler WA7OII
1986 Jean Wheeler WA7OII
1987 Irma Duncan W7OVW
1988 Newt Grimes WN7L
1989 Gerald Seligman W7BUN
1990 Jeff Freeman K7JF
1991 Ken Moak WA2JQW
1992 Shirley Murphy N7QHW
1992 Carl Rosevear KB7LIG
1993 Ray Pederson W7KFN
1993 Kathleen Nace W0EYK
1994 Bill Shimmin W7GBC
1995 Jim Kirkreit K7YLM
1995 Brian Spindor KA7KUZ
1997 Lou Simmons KB7WDB
1997 Worth Gurley W7WG
1998 Al Churchill KC7YGC
1998 Pete David KK7QW
1999 Nora Simmons KC7JME
2000 Rich Manson N7ANF
2001 Morel Guyot W6LIX
2002 John Robson AC7LK
2003 Jill Palmer K7JIL
2004 Ed Root KC7OKS
2005 Rich Patrick KR7W
2006 Mick Pier KK7QS
2006 Nick Winter K7MO
2007 Al Ferguson N7OMS
2008 Rick Rose KE7EMW
2008 Larry Watson KD4VOM
2009 Harry Adams W7HSA
2010 Stephen Morton AD7AB
2011 Steve Blacksten AD7VL
2012 Bruce Hanson WE7P
2013 Randy Myers WB4SPB
2014 Mike Finnie W7MWF
2015 George Salisbury K7GRS
2016 Steve Dightman AF7YD
2017 Mike Drorbaugh W7MKE
2018 Adam Barbera W2NCC
2019 Red Cranefield WB7EC

Appendix 2 – RCT Presidents

Note: Records before the *BARK* are not entirely complete or consistent

Year	First	Last	Call
1916	Howard	Riechert	7HR
1917	Al	Stenso	7LV
1918	Al	Stenso	7LV
1919	H. J.	Reichert	7HR
1919	Lester	O'Brien	7EV
1920	Neville	Benoit	7BC
1920	Leslie	Lunan	7LL
1921	H. J.	Riechert	7HR
1921	Al	Stenso	7LV
1922	H. J.	Reichert	7HR
1922	Eric	Tugby	UNKNOWN
1922	Karl	Weingarten	7BG
1923	Frank	Tovey	7DB
1924	George	Miller	7MJ
1924	George	Beckett	UNKNOWN
1925	Claude	Butler	7GB
1925	Melville	McCulloh	W7DCP
1926	F. J.	Todd	7GB
1926	Karl	Weingarten	7BG
1927	L. A.	Dix	7AU
1927	F. J.	Todd	7GB
1928	J. A.	Carlisle	UNKNOWN
1929	R. G.	Olson	W7UW
1929	L. A.	Dix	W7AU/7AU
1930	Howard	Reichert	7HR
1930	Karl	Weingarten	W7BG
1931	Doc	Spike	W7OS
1931	Conrad	Ganes	W7AAX
1932	Doc	Spike	W7OS
1933	F. M.	Dodge	W7AAB
1934	??		
1935	Karl	Weingarten	W7BG
1935	??		
1936	Lloyd	Norberg	W7EHQ
1937	Lloyd	Norberg	W7EHQ
1938	Carl F.	Hoffman	W7EPB
1938	Karl	Weingarten	W7BG
1939	Karl	Weingarten	W7BG
1939	Carl F.	Hoffman	W7EPB
1940	Everett	Cutting	W7HC/7HC
1941	Bob	Lawson	UNKNOWN
1941	Karl	Weingarten	W7BG
1942	WWII		
1943	WWII		
1944	WWII		
1945	WWII		
1946	Reorganization on March 25		
1947	??		
1948	C. W.	Aufang	W7BMG
1948	Earnie	Ripoli	W7NIL
1949	Roy	Devish	W7AZI
1950	Roy	Devish	W7AZI
1951	Carl F.	Hoffman	W7EPB??
1952	Alex	Braidwood	W7AZR
1953	Ernest	Ripoli	W7NIL
1954	Roy	Devish	W7AZI
1955	Bob	Churchward	W7RXS
1956	Doc	Spike	W7OS
1957	Doc	Spike	W7OS
1958	Max	Bice	W7AEA
1958	Roy	Devish	K7AZI
1959	Mel C.	Pruitt	K7ATF
1960	Otho E.	Smith	K7ATD
1961	Jerry	Seligman	WYFS/7
1962	Charles L.	Nee	W7WPN
1963	Cal	Morgan	W7SFT
1963	Charles L.	Nee	W7WPN
1964	Merle	Chavis	W7IKG
1965	Jerry	Seligman	W5YFS
1965	Doc	Spike	W7OS
1966	Doc	Spike	W7OS
1967	Roy	Devish	W7AZI
1968	Ed	Coles	K7CZM
1969	George	Abbott	WA7BHH
1969	Bob	Gates	K7IND
1970	Bob	Gates	K7IND
1971	Dennis	Reanier	W7UBA
1972	Len	Goodwin	WA7HHI
1973	Len	Goodwin	WA7HHI
1974	Joe	Winter	WA7RWK
1975	Bill	Deathridge	WA7SCN

1976	Jack	Haworth	W7AJR
1977	Jack	Haworth	WA7AJR
1978	Bob	Titzel	WA7ZZA
1979	Doug	Smith	WA7ZPK
1980	Roy	Richards	N7ARO
1981	Cal	Morgan	W7SFT
1982	Cal	Morgan	W7SFT
1983	Bob	Teitzel	WA7ZZA
1984	Marv	Wheeler	KG7V
1985	Jean	Wheeler	WA7OII
1986	Jean	Wheeler	WA7OII
1987	Scotty	Huntley	K7CYZ
1988	Don	Hutt	WB7BLQ
1989	Tom	Sutton	WV7V
1990	Jeff	Freedman	K7JF
1991	Jeff	Freedman	K7JF
1992	Kathleen	Nace	N0EYK
1993	Kathleen	Nace	N0EYK
1994	Jim	Kirkreit	K7YLM
1995	Jim	Kirkreit	K7YLM
1996	Mike	Crawford	WB7DFQ
1997	Mike	Crawford	WB7DFQ
1998	Roger	Terwilliger	WA7ANJ
1999	Roger	Terwilliger	WA7ANJ
2000	Alan	Hughes	KB7SVU
2001	Mick	Pier	KK7QS
2002	Mick	Pier	KK7QS
2003	Mick	Pier	KK7QS
2004	Mick	Pier	KK7QS
2005	Mick	Pier	KK7QS
2006	Mick	Pier	KK7QS
2007	Randy	Thompson	KK7FF
2008	Jill	Palmer	K7JIL
2009	Jill	Palmer	K7JIL
2010	Jill	Palmer	K7JIL
2011	Gary	McAdams	WG7X
2012	Gary	McAdams	WG7X
2013	Gary	McAdams	WG7X
2014	Gary	McAdams	WG7X
2015	Gary	McAdams	WG7X
2016	Gary	McAdams	WG7X
2017	Dave	Ellison	W7UUU
2018	Dave	Ellison	W7UUU
2019	Dave	Ellison	W7UUU
2020	Dave	Ellison	W7UUU

Today I was able to preview the glossy History booklet. George did a beautiful job on it! So after the final segment of the serialized History in the August BARK, could this announcement please follow?

"A handsome 30-page, glossy booklet will soon be available from RCT for the cost of publishing and postage (if necessary). Stay tuned for ordering information. You can already download an electronic version of the booklet at the W7DK website. Just follow the Our Radio Club link and on the following page the History link."

Messages above from the Author, Doug Oakman AD7AV.

Doug also asked me to include a clickable link. Since your Editor is not too smart, I will copy and paste the link. Maybe it will work, maybe not!

https://w7dk.org/index.php?option=com_content&view=category&id=147&Itemid=120

which, in turn, links to the PDF

https://w7dk.org/data/W7DK%20History2.pdf

The Club LINEUP

Club Officers

President: Dave Ellison, W7UUU - w7uuu©w7dk.org

Vice Pres: Mike Mikuchonis, W7XTZ - w7xtz©w7dk.org

Secretary: Mike Drorbaugh W7MKE - w7mke@w7dk.org

Treasurer: Steve Dightman, AF7YD - af7yd©w7dk.org

5 Board Members

Bruce Hanson, WE7P - we7p©w7dk.org

Paul Matney, W7PFU - w7pfu©w7dk.org

Adam Barbera, W2NCC - w2ncc©w7dk.org

Red Cranefield, WB7EC - wb7ec©w7dk.org

Phil Pia, K7PIA - k7pia©w7dk.org

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Membership Info: FULL (licensed) and ASSOCIATE (non licensed) membership is $35 per calendar year or $30 for Licensed Seniors (65 and over). Licensed family members at same address pay $20 each for the first two and are free for the third, fourth, and so on. Full-time students, licensed or non licensed, up to age 25 are $20 per year. Note: fees are applicable for the calendar year: Jan to Dec. Lifetime membership is 20 times the yearly fee you are eligible for. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.

www.w7dk.org [LINK] - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.

Radio Club Repeaters

Central Tacoma: 147.280 + PL=103.5

Crawford Mountain 147.380 + PL=103.5 (E of Olympia © 1500 ft ASL)

Central Tacoma: 440.625 + PL=103.5

North Tacoma: 145.21 – PL=141.3